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Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
	09/973,748	DALLIN, MICHAEL DEAN
Office Action Summary	Examiner	Art Unit
	Michael C. Maskulinski	2113
The MAILING DATE of this communication Period for Reply	appears on the cover sheet with the	correspondence address
A SHORTENED STATUTORY PERIOD FOR REWHICHEVER IS LONGER, FROM THE MAILING  - Extensions of time may be available under the provisions of 37 CF after SIX (6) MONTHS from the mailing date of this communication  - If NO period for reply is specified above, the maximum statutory pe  - Failure to reply within the set or extended period for reply will, by so Any reply received by the Office later than three months after the nearned patent term adjustment. See 37 CFR 1.704(b).	G DATE OF THIS COMMUNICATION R 1.136(a). In no event, however, may a reply be to the control of	NN. imely filed in the mailing date of this communication. ED (35 U.S.C. § 133).
Status		
1)⊠ Responsive to communication(s) filed on 2 2a)⊠ This action is <b>FINAL</b> . 2b)□ 3 3)□ Since this application is in condition for all closed in accordance with the practice und	This action is non-final. owance except for formal matters, p	
Disposition of Claims		
4) ⊠ Claim(s) 1-29 is/are pending in the applica 4a) Of the above claim(s) is/are with 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) 1-4,6-13,15-17,19-24 and 26-29 if 7) ⊠ Claim(s) 5,14,18 and 25 is/are objected to 8) □ Claim(s) are subject to restriction are	drawn from consideration. s/are rejected.	
Application Papers		
9) The specification is objected to by the Exar  10) The drawing(s) filed on is/are: a)  Applicant may not request that any objection to  Replacement drawing sheet(s) including the co  11) The oath or declaration is objected to by the	accepted or b) objected to by the the drawing(s) be held in abeyance. So rrection is required if the drawing(s) is o	ee 37 CFR 1.85(a). bjected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for force a) All b) Some * c) None of:  1. Certified copies of the priority docum 2. Certified copies of the priority docum 3. Copies of the certified copies of the application from the International Bu * See the attached detailed Office action for a	nents have been received. nents have been received in Applica priority documents have been receiv reau (PCT Rule 17.2(a)).	tion No ved in this National Stage
Attachment(s)  1) Notice of References Cited (PTO-892)	4) 🔲 Interview Summar	y (PTO-413)
<ul> <li>2) Notice of Draftsperson's Patent Drawing Review (PTO-948</li> <li>3) Information Disclosure Statement(s) (PTO-1449 or PTO/SE Paper No(s)/Mail Date</li> </ul>	Paper No(s)/Mail I	

Referring to claims 1 and 10:

#### **Final Office Action**

# Claim Rejections - 35 USC § 102

- 1. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
- 2. Claims 1-4, 8, 10-13, 15-17, 19, 20, 23, 24, 26, and 27 are rejected under 35 U.S.C. 102(b) as being anticipated by Smith, Jr., U.S. Patent 5,754,755.
  - a. In column 2, lines 28-30, Smith, Jr. discloses that an output file generator receives an indication of a test template file that has test instructions that contain placeholders (providing a predefined template).
  - b. In column 2, lines 32-34, Smith, Jr. discloses that the output file generator receives an ordered list of customizing files that have application-specific placeholder values (providing a table having test data for the software product). Although, Smith Jr. doesn't explicitly disclose a table that is a column-row matrix, an ordered list is inherently a table that is a column-row matrix since it is possible to have a table that is 1 x n or n x 1 where n can be any positive integer.
  - c. In column 2, lines 34-42, Smith, Jr. discloses that if a test instruction contains a placeholder, then the output file generator searches the customizing files according to the ordered list for a first placeholder value for the placeholder of the test instruction. When such a placeholder value is found, the output file generator inserts the placeholder value into the test instruction. The output file generator then stores the test

instruction into the application-specific test script (running a test generation system with the template to process the test data and to automatically generate a test script file).

d. In column 2, lines 42-44, Smith, Jr. discloses that after the generating is complete, this application-specific test script can then be used to test the application (running the software product while using the generated test script file to test the software product).

Referring to claim 2, in column 2, lines 34-42, Smith, Jr. discloses that if a test instruction contains a placeholder, then the output file generator searches the customizing files according to the ordered list for a first placeholder value for the placeholder of the test instruction. When such a placeholder value is found, the output file generator inserts the placeholder value into the test instruction. The output file generator then stores the test instruction into the application-specific test script (the test script file contains at least one test case generated based upon the test data and the template).

Referring to claim 3, in column 4, lines 43-45, Smith, Jr. discloses that the test template file contains a file type indicator, common macro instructions (a type template having at least one macro), control commands, and placeholders (wherein the type template provides a key for the test generation system to generate the at least one test case based upon the test data).

Referring to claims 4, 13, 20, and 27, in column 4, lines 43-45, Smith, Jr. discloses that the test template file contains a file type indicator, common macro, control commands, and placeholders (an output template, wherein the output

template has at least one macro and dictates a format of the generated test script file).

Referring to claim 8, in Figure 1, Smith, Jr. discloses that the test generation system and the software product reside on different systems.

Referring to claims 11 and 26, in column 4, lines 43-45, Smith, Jr. discloses that the test template file contains a file type indicator, common macro instructions, control commands, and placeholders (a type template that provides a key for the test generation system to generate the at least one test case based upon the test data).

Referring to claim 12, in column 4, lines 43-45, Smith, Jr. discloses that the test template file contains a file type indicator, common macro instructions (the type template includes at least one macro), control commands, and placeholders.

Referring to claim 15, in column 2, lines 34-42, Smith, Jr. discloses that if a test instruction contains a placeholder, then the output file generator searches the customizing files according to the ordered list for a first placeholder value for the placeholder of the test instruction. When such a placeholder value is found, the output file generator inserts the placeholder value into the test instruction. The output file generator then stores the test instruction into the application-specific test script (the test script file includes at least one test case automatically generated by the test generation system based upon the test data).

Referring to claim 16:

- a. In column 2, lines 28-30, Smith, Jr. discloses that an output file generator receives an indication of a test template file that has test instructions that contain placeholders (entering a predefined type template into a test generation system).
- b. In column 4, lines 56-65, Smith, Jr. discloses a template with control commands (entering a predefined output template into the test generation system).
- c. In column 2, lines 32-34, Smith, Jr. discloses that the output file generator receives an ordered list of customizing files that have application-specific placeholder values (entering a table having test data for the software product into the test generation system).
- d. In column 2, lines 34-42, Smith, Jr. discloses that if a test instruction contains a placeholder, then the output file generator searches the customizing files according to the ordered list for a first placeholder value for the placeholder of the test instruction. When such a placeholder value is found, the output file generator inserts the placeholder value into the test instruction. The output file generator then stores the test instruction into the application-specific test script (running the test generation system with the type template and the output template on a first computer system to process the test data to automatically generate an executable test script file).
- e. In column 2, lines 42-44 and in Figure 1, Smith, Jr. discloses that after the generating is complete, this application-specific test script can

then be used to test the application (running the software product on a second computer while using an automation tool to run the executable test script file to test the software product).

## Referring to claim 17:

- a. In column 2, lines 28-30, Smith, Jr. discloses that an output file generator receives an indication of a test template file that has test instructions that contain placeholders. In column 4, lines 56-65, Smith, Jr. discloses a template with control commands. In column 2, lines 32-34, Smith, Jr. discloses that the output file generator receives an ordered list of customizing files that have application-specific placeholder values (an input system for receiving a type template, an output template, and a table having test data for the software product).
- b. In column 2, lines 34-42, Smith, Jr. discloses that if a test instruction contains a placeholder, then the output file generator searches the customizing files according to the ordered list for a first placeholder value for the placeholder of the test instruction. When such a placeholder value is found, the output file generator inserts the placeholder value into the test instruction. The output file generator then stores the test instruction into the application-specific test script. In column 2, lines 42-44 and in Figure 1, Smith, Jr. discloses that after the generating is complete, this application-specific test script can then be used to test the application (a process system for processing the test data to automatically generate a

test script file based upon the type template and the output template, wherein the generated test script file is used to test the software product).

Referring to claim 19, in column 4, lines 43-45, Smith, Jr. discloses that the test template file contains a file type indicator, common macro instructions, control commands, and placeholders (the type template provides a key for generating the test script file based upon the test data). Further, in column 3, lines 5-28, Smith, Jr. teaches that the tests script file includes at least one test case.

## Referring to claim 23:

- a. In Figure 1, Smith, Jr. discloses a test generation system stored on a first computer system.
- b. In column 2, lines 28-30, Smith, Jr. discloses that an output file generator receives an indication of a test template file that has test instructions that contain placeholders. In column 4, lines 56-65, Smith, Jr. discloses a template with control commands. In column 2, lines 32-34, Smith, Jr. discloses that the output file generator receives an ordered list of customizing files that have application-specific placeholder values (means for receiving a type template, an output template, and a table having test data for the software product).
- c. In column 2, lines 34-42, Smith, Jr. discloses that if a test instruction contains a placeholder, then the output file generator searches the customizing files according to the ordered list for a first placeholder value for the placeholder of the test instruction. When such a placeholder

value is found, the output file generator inserts the placeholder value into the test instruction. The output file generator then stores the test instruction into the application-specific test script. In column 2, lines 42-44 and in Figure 1, Smith, Jr. discloses that after the generating is complete, this application-specific test script can then be used to test the application (means for processing the test data, based upon the type template and the output template, to automatically generate an executable test script file having at least one test case).

- f. In Figure 1, Smith, Jr. discloses a means for outputting the executable test script file.
- g. In column 2, lines 42-44 and in Figure 1, Smith, Jr. discloses that after the generating is complete, this application-specific test script can then be used to test the application (an automation toll for running the executable test script file to test the software product, wherein the software product is stored on a second computer system).

#### Referring to claim 24:

- a. In column 4, lines 40-41, Smith, Jr. discloses that the output file generator may be stored as instructions on a computer-readable medium such as a disk (a program product, stored on a recordable medium, for testing a software product).
- b. In column 2, lines 28-30, Smith, Jr. discloses that an output file generator receives an indication of a test template file that has test instructions that contain placeholders. In column 4, lines 56-65, Smith, Jr.

discloses a template with control commands. In column 2, lines 32-34, Smith, Jr. discloses that the output file generator receives an ordered list of customizing files that have application-specific placeholder values (an input system for receiving a type template, an output template, and a table having test data for the software product).

c. In column 2, lines 34-42, Smith, Jr. discloses that if a test instruction contains a placeholder, then the output file generator searches the customizing files according to the ordered list for a first placeholder value for the placeholder of the test instruction. When such a placeholder value is found, the output file generator inserts the placeholder value into the test instruction. The output file generator then stores the test instruction into the application-specific test script. In column 2, lines 42-44 and in Figure 1, Smith, Jr. discloses that after the generating is complete, this application-specific test script can then be used to test the application (a process system for processing the test data to automatically generate a test script file based upon the type template and the output template, wherein the generated test script file is used to test the software product).

### Claim Rejections - 35 USC § 103

- 3. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
- 4. Claims 6, 7, 9, 21, 22, 28, and 29 are rejected under 35 U.S.C. 103(a) as being unpatentable over Smith, Jr., U.S. Patent 5,754,755.

Referring to claims 6, 21, and 28, in column 2, lines 42-44, Smith, Jr. discloses that the application-specific test script can be used to test the application. However, Smith, Jr. doesn't explicitly disclose automatically running the test script with an automation tool. In column 1, lines 23-25, Smith, Jr. discloses in the Background of the Invention that some conventional testing procedures involve first manually writing a test script and then using that test script to automatically test the application program. It would have been obvious to one of ordinary skill at the time of the invention to include the automatic testing of the application program into the system of Smith, Jr. A person of ordinary skill in the art would have been motivated to make the modification because of the importance of thorough testing and because such testing can be very time-consuming, the application developers have developed extensive automated testing procedures (see Smith, Jr.: column 1, lines 17-21).

Referring to claims 7, 22, and 29, in column 2, lines 42-44, Smith, Jr. discloses that the application-specific test script can be used to test the application. However, Smith, Jr. doesn't explicitly disclose running the test script manually by a user. The Examiner takes Official Notice that in the art of software testing it is well known to use a stepping procedure to step through a program in order to debug a program. A user does this manually. It would have been obvious to one of ordinary skill at the time of the invention to include the manual testing of the application program into the system of Smith, Jr. A person of ordinary skill in the art would have been motivated to make the modification

because manually stepping through a program's instructions allows a user to find specific lines of code that caused the problem.

Referring to claim 9, in column 4, lines 40-41, Smith, Jr. discloses that the output file generator may be stored as instructions on a computer-readable medium such as a disk. However, Smith, Jr. discloses that the test generation system and the software product reside on the same computer system. It would have been obvious to one of ordinary skill at the time of the invention to use the disk to install the output file generator instructions onto the same computer system that the software product resides on. A person of ordinary skill in the art would have been motivated to make the modification because the whole point of storing instructions on a disk is so that it can be run and stored anywhere.

# Allowable Subject Matter

5. Claims 5, 14, 18, and 25 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

# Response to Arguments

- 6. Applicant's arguments filed September 21, 2005 have been fully considered but they are not persuasive.
- 7. On page 10, under section A. Rejection of Claims 1-5, 8, 10-20, and 23-27 under 35 U.S.C. 102(b), the Applicant argues, "Please note that Smith discloses an ordered list of <u>customizing files</u>, not a table of a column-row matrix of <u>test data</u> as in the claimed invention (emphasis by Applicant). As is well known in the art a

file is not equivalent to a test datum." The Examiner respectfully disagrees. The Applicant's statement that a file is not equivalent to test datum is correct.

However, it is notoriously well known that a file contains data and that in this case a **customized** file is a file that contains test data.

- On page 10, under section A. Rejection of Claims 1-5, 8, 10-20, and 23-27 8. under 35 U.S.C. 102(b), the Applicant argues, "Moreover, the customizing files of Smith are specified as being in an ordered list and not a table. Furthermore, the ordered list of Smith, Jr. is only specified as having application-specific placeholder values and not as being a column-row matrix of 'test data.' In sum, nowhere does Smith teach that its ordered list of customizing files is a table or that the table is a column-row matrix test data." The Examiner respectfully disagrees. In column 4, lines 63-65, Smith, Jr. discloses that the output file generator replaces a placeholder by searching for a placeholder value with that placeholder in the ordered list of customizing files. The ordered list of customizing files is a table. It is a list that is searched by an index value and then returns a corresponding value or function. A table works the same way when you search it, for example, a person would go down a column looking for a value and then look across the row to return the corresponding value. The Applicant is also reminded that a table can be a single entry, a 1 x n matrix, or even an n x 1 matrix where *n* is any positive integer.
- 9. On pages 10-11, under section A. Rejection of Claims 1-5, 8, 10-20, and 23-27 under 35 U.S.C. 102(b), the Applicant argues, "Applicant respectfully traverses this assertion because 'the fact that a certain result or characteristic

may occur or be present in the prior art is not sufficient to establish inherency of that result or characteristic.' (MPEP 2112 IV)." Further, the Applicant argues, "In this case. Smith does not necessarily include a table of a column-row matrix of test data because the customizing files in Smith are to be searched by the output file generator according to the ordered list for a first placeholder value for the placeholder of the test instruction. (See col. 2, lines 33-38) That is, first value for first placeholder in Smith. Because of this specific searching mechanism in Smith, the customizing files of Smith are not necessarily (actually not expected to be) organized as a matrix other than as an ordered list. Based on the disclosure of Smith, the customizing files in Smith are better organized as an ordered list to be searched than as a matrix. In view of the foregoing, the Office does not establish an inherent table in Smith." The Examiner respectfully disagrees. A table is always a column-row matrix as defined by the Applicant in claim 1. A table can have one row or one column. To say otherwise is wrong. An ordered list has one row and multiple columns; therefore it is always a table. However, a table is not always an ordered list, therefore, the inherency is correct. Further, the argument that based on the disclosure of Smith, the customizing files in Smith are better organized as an ordered list to be searched than as a matrix is solely based on speculation by the Applicant and is unsubstantiated. The Examiner would like to note that nowhere in claim 1 or any of the other independent claims is it disclosed how the table is used or searched. It appears that the table is merely a structure used to hold data. Most likely any structure could be used since the claims aren't concerned about how the table is

accessed, but are instead concerned with providing a template and test data for generating a test script file. The concept of a template and test data for generating a test script file is thoroughly disclosed throughout the reference of Smith, Jr.

- 10. On page 12 under section B. Rejection of Claims 6, 7, 9, 21, 22, 28, and 29 under 35 U.S.C. 103(a), the Applicant argues, "Smith teaches away from an executable file, in that the test script generated by Smith, Jr., instead of automatically running with an automation tool, appears to be written in a macro language that is capable of running independently of an automation tool. Col. 2, lines 8-22; FIG. 2." The Examiner respectfully disagrees and notes that this argument has been addressed in the previous Office Action and directs the Applicant there for the Examiner's response. In that Office Action, the Examiner thoroughly addressed the argument and requested that the Applicant show how it isn't an executable file that is automatically run by an automation tool. The Applicant has failed to do so and for at least this reason the argument is moot.
- 11. On pages 12-13, under section B. Rejection of Claims 6, 7, 9, 21, 22, 28, and 29 under 35 U.S.C. 103(a), the Applicant argues, "this factual assertion is unsubstantiated and is not properly based upon common knowledge.

  Furthermore, the test script generated by Smith, Jr., instead of being a documentation file that is manually run by a user, appears to be written in a macro language that is capable of running independently of a user." The Examiner respectfully disagrees for at least the reasons given in the Final Office Action, mailed February 18, 2005. Further, in that same Office Action the

Examiner provided U.S. Patent 4,177,520 and U.S. Patent 5,121,472 to show single-stepping and its application in debugging programs to show common knowledge.

12. With regard to the Applicant's response on pages 12-13, under section B., the Examiner would like to note that the Applicant continuously repeats previous arguments without acknowledging the Examiner's response or adding anything to the original arguments. This does not constitute a proper response nor advance the prosecution of the Application. The Examiner respectfully requests substantial arguments in the next response to help advance the prosecution of the Application or that the Applicant drop the arguments altogether.

### Conclusion

13. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael C. Maskulinski whose telephone number is (571) 272-3649. The examiner can normally be reached on Monday-Friday 9:30-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert W. Beausoliel can be reached on (571) 272-3645. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

MM

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